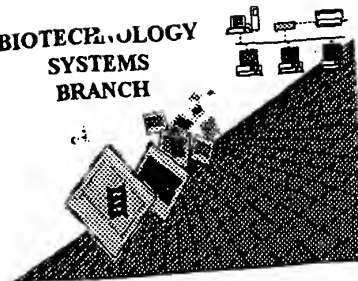


## RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



#19/52  
8-201

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/659,983B

Source: O/PE

Date Processed by STIC: 6/5/2001

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**

**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**

- 1) INCLUDING A COPY OF THIS PRINTOUT TO THE APPLICANT BY EITHER:  
APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A  
NOTICE TO COMPLY

**FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.**

**FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.**

**PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)**

**TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER  
VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND  
TRADEMARK OFFICE WEBSITE. SEE BELOW:**

### **Checker Version 3.0**

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25. Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

**Checker Version 3.0 can be down loaded from the USPTO website at the following address:**

**<http://www.uspto.gov/web/offices/pac/checker>**

OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/659,983B

DATE: 06/05/2001

TIME: 14:22:06

Does Not Comply  
Corrected Diskette Needed

Input Set : A:\PTO.txt

Output Set: C:\CRF3\06052001\I659983B.raw

pg 2, 6

3 <110> APPLICANT: Meloen, Robert Hans  
 4 Oonk, Hendrica Berendina  
 6 <120> TITLE OF INVENTION: An Improved Peptide, Immunogenic Composition and Vaccine or  
 Medical  
 7 Preparation, a Method to Immunise Animals Against the Hormone LHRH, and Analogs  
 8 of the LHRH Tandem Repeat Peptide and their Use as Vaccine  
 10 <130> FILE REFERENCE: 2183-4518US  
 12 <140> CURRENT APPLICATION NUMBER: 09/659,983B  
 OK-> 13 <141> CURRENT FILING DATE: 2001-05-12  
 15 <150> PRIOR APPLICATION NUMBER: US 09/274,048  
 16 <151> PRIOR FILING DATE: 1999-03-22  
 18 <150> PRIOR APPLICATION NUMBER: US 08/981,557  
 19 <151> PRIOR FILING DATE: 1995-06-07  
 21 <150> PRIOR APPLICATION NUMBER: PCT/NL96/00223  
 22 <151> PRIOR FILING DATE: 1996-06-06  
 24 <150> PRIOR APPLICATION NUMBER: US 08/447,298  
 25 <151> PRIOR FILING DATE: 1995-06-07  
 27 <150> PRIOR APPLICATION NUMBER: US 08/476,013  
 28 <151> PRIOR FILING DATE: 1995-06-07  
 30 <160> NUMBER OF SEQ ID NOS: 13  
 32 <170> SOFTWARE: PatentIn version 3.0  
 34 <210> SEQ ID NO: 1  
 35 <211> LENGTH: 10  
 36 <212> TYPE: PRT  
 37 <213> ORGANISM: Sus scrofa  
 39 <220> FEATURE:  
 40 <221> NAME/KEY: PEPTIDE  
 41 <222> LOCATION: (1)..(1)  
 42 <223> OTHER INFORMATION: X=pyroglutamic acid  
 45 <220> FEATURE:  
 46 <221> NAME/KEY: PEPTIDE  
 47 <222> LOCATION: (10)..(10)  
 48 <223> OTHER INFORMATION: X=Gly-NH2  
 OK-> 51 <400> SEQUENCE: 1  
 53 Xaa His Trp Ser Tyr Gly Leu Arg Pro Xaa  
 54 1 5 10  
 56 <210> SEQ ID NO: 2  
 57 <211> LENGTH: 10  
 58 <212> TYPE: PRT  
 59 <213> ORGANISM: Homo sapiens  
 61 <220> FEATURE:  
 62 <221> NAME/KEY: PEPTIDE  
 63 <222> LOCATION: (1)..(1)  
 64 <223> OTHER INFORMATION: X=pyroglutamic acid  
 67 <220> FEATURE:  
 68 <221> NAME/KEY: PEPTIDE  
 69 <222> LOCATION: (10)..(10)  
 70 <223> OTHER INFORMATION: X=Gly-NH2

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/659,983B

DATE: 06/05/2001

TIME: 14:22:06

Input Set : A:\PTO.txt

Output Set: C:\CRF3\06052001\I659983B.raw

73 <400> SEQUENCE: 2  
 W--> 75 Xaa His Trp Ser His Gly Trp Tyr Pro Xaa  
 76 1 5 10  
 78 <210> SEQ ID NO: 3  
 79 <211> LENGTH: 20  
 80 <212> TYPE: PRT  
 C--> 81 <213> ORGANISM: artificial  
 83 <220> FEATURE:  
 84 <223> OTHER INFORMATION: A peptide suitable for eliciting an immune response against  
 forms  
 85 GnRH/ LHRH  
 87 <220> FEATURE:  
 88 <221> NAME/KEY: PEPTIDE  
 89 <222> LOCATION: (1)..(1)  
 90 <223> OTHER INFORMATION: X=pyroglutamic acid or Gln with attached tail of one or more  
 addi  
 91 tional amino acid  
 94 <220> FEATURE:  
 95 <221> NAME/KEY: PEPTIDE  
 96 <222> LOCATION: (3)..(3)  
 97 <223> OTHER INFORMATION: X=Trp or N(indole)formyl-tryptophan  
 100 <220> FEATURE:  
 101 <221> NAME/KEY: PEPTIDE  
 102 <222> LOCATION: (11)..(11)  
 103 <223> OTHER INFORMATION: X=direct bond or a spacer group between Gly at position 10  
 and Gl  
 104 n at position 1  
 107 <220> FEATURE:  
 108 <221> NAME/KEY: PEPTIDE  
 109 <222> LOCATION: (13)..(13)  
 110 <223> OTHER INFORMATION: X=Trp or N(indole)formyl-tryptophan  
 113 <220> FEATURE:  
 114 <221> NAME/KEY: PEPTIDE  
 115 <222> LOCATION: (20)..(20)  
 116 <223> OTHER INFORMATION: X=Gly-NH2 or Gly with attached tail of one or more amino  
 acids  
 119 <220> FEATURE:  
 120 <221> NAME/KEY: VARIANT  
 121 <222> LOCATION: (10)..(20)  
 122 <223> OTHER INFORMATION: variable repeat sequence <>10-20  
 125 <400> SEQUENCE: 3  
 W--> 127 Xaa His Xaa Ser Tyr Gly Leu Arg Pro Gly Xaa His Xaa Ser Tyr Gly  
 128 1 5 10 15  
 W--> 130 Leu Arg Pro Xaa  
 131 20  
 133 <210> SEQ ID NO: 4  
 134 <211> LENGTH: 21  
 135 <212> TYPE: PRT  
 C--> 136 <213> ORGANISM: artificial  
 138 <220> FEATURE:  
 139 <223> OTHER INFORMATION: A peptide suitable for eliciting an immune response against  
 forms  
 140 GnRH/ LHRH

*Xaa can only represent a single amino acid, nothing else*

142 <220> FEATURE:

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/659,983B

DATE: 06/05/2001

TIME: 14:22:06

Input Set : A:\PTO.txt

Output Set: C:\CRF3\06052001\I659983B.raw

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143 <221> NAME/KEY: PEPTIDE
144 <222> LOCATION: (1)..(1)
145 <223> OTHER INFORMATION: X=pyroglutamic acid
148 <220> FEATURE:
149 <221> NAME/KEY: PEPTIDE
150 <222> LOCATION: (6)..(6)
151 <223> OTHER INFORMATION: X=D-Lys
154 <220> FEATURE:
155 <221> NAME/KEY: PEPTIDE
156 <222> LOCATION: (11)..(11)
157 <223> OTHER INFORMATION: X=Gly or Gly preceded by a spacer
160 <220> FEATURE:
161 <221> NAME/KEY: PEPTIDE
162 <222> LOCATION: (16)..(16)
163 <223> OTHER INFORMATION: X=D-Lys
166 <220> FEATURE:
167 <221> NAME/KEY: PEPTIDE
168 <222> LOCATION: (21)..(21)
169 <223> OTHER INFORMATION: X=Cys-NH2
172 <400> SEQUENCE: 4
W-1-> 174 Xaa His Thr Ser Tyr Xaa Leu Arg Pro Gly Xaa His Thr Ser Tyr Xaa
      175 1 5 10 15
W-1-> 177 Leu Arg Pro Gly Xaa
      178 20
180 <210> SEQ ID NO: 5
181 <211> LENGTH: 21
182 <212> TYPE: PRT
6/5-> 183 <213> ORGANISM: artificial
185 <220> FEATURE:
186 <223> OTHER INFORMATION: A peptide suitable for eliciting an immune response against
forms
187 GnRH/ LHRH
189 <220> FEATURE:
190 <221> NAME/KEY: PEPTIDE
191 <222> LOCATION: (1)..(1)
192 <223> OTHER INFORMATION: X=pyroglutamic acid
195 <220> FEATURE:
196 <221> NAME/KEY: PEPTIDE
197 <222> LOCATION: (4)..(4)
198 <223> OTHER INFORMATION: X=amino acid substitution
201 <220> FEATURE:
202 <221> NAME/KEY: PEPTIDE
203 <222> LOCATION: (6)..(6)
204 <223> OTHER INFORMATION: X=D-Lys
207 <220> FEATURE:
208 <221> NAME/KEY: PEPTIDE
209 <222> LOCATION: (11)..(11)
210 <223> OTHER INFORMATION: X=Gly or Gly preceded by a spacer
213 <220> FEATURE:
214 <221> NAME/KEY: PEPTIDE

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## RAW SEQUENCE LISTING

DATE: 06/05/2001

PATENT APPLICATION: US/09/659,983B

TIME: 14:22:06

Input Set : A:\PTO.txt

Output Set: C:\CRF3\06052001\I659983B.raw

215 <222> LOCATION: (14)..(14)  
 216 <223> OTHER INFORMATION: X=amino acid substitution  
 219 <220> FEATURE:  
 220 <221> NAME/KEY: PEPTIDE  
 221 <222> LOCATION: (16)..(16)  
 222 <223> OTHER INFORMATION: X=D-Lys  
 225 <220> FEATURE:  
 226 <221> NAME/KEY: PEPTIDE  
 227 <222> LOCATION: (21)..(21)  
 228 <223> OTHER INFORMATION: X=Cys-NH2  
 231 <400> SEQUENCE: 5  
 W-4> 233 Xaa His Thr Xaa Tyr Xaa Leu Ala Pro Gly Xaa His Thr Xaa Tyr Xaa  
 234 1 5 10 15  
 W-4> 236 Leu Arg Pro Gly Xaa  
 237 20  
 239 <210> SEQ ID NO: 6  
 240 <211> LENGTH: 21  
 241 <212> TYPE: PRT  
 06> 242 <213> ORGANISM: artificial  
 244 <220> FEATURE:  
 245 <223> OTHER INFORMATION: A peptide suitable for eliciting an immune response against  
 forms  
 246 GnRH/ LHRH  
 248 <220> FEATURE:  
 249 <221> NAME/KEY: PEPTIDE  
 250 <222> LOCATION: (1)..(1)  
 251 <223> OTHER INFORMATION: X=pyroglutamic acid  
 254 <220> FEATURE:  
 255 <221> NAME/KEY: PEPTIDE  
 256 <222> LOCATION: (6)..(6)  
 257 <223> OTHER INFORMATION: X=D-Lys  
 260 <220> FEATURE:  
 261 <221> NAME/KEY: PEPTIDE  
 262 <222> LOCATION: (8)..(8)  
 263 <223> OTHER INFORMATION: X=amino acid substitution  
 266 <220> FEATURE:  
 267 <221> NAME/KEY: PEPTIDE  
 268 <222> LOCATION: (11)..(11)  
 269 <223> OTHER INFORMATION: X=Gly or Gly preceded by a spacer  
 272 <220> FEATURE:  
 273 <221> NAME/KEY: PEPTIDE  
 274 <222> LOCATION: (16)..(16)  
 275 <223> OTHER INFORMATION: X=D-Lys  
 278 <220> FEATURE:  
 279 <221> NAME/KEY: PEPTIDE  
 280 <222> LOCATION: (18)..(18)  
 281 <223> OTHER INFORMATION: X=amino acid substitution  
 284 <220> FEATURE:  
 285 <221> NAME/KEY: PEPTIDE  
 286 <222> LOCATION: (21)..(21)

## RAW SEQUENCE LISTING

DATE: 06/05/2001

PATENT APPLICATION: US/09/659,983B

TIME: 14:22:06

Input Set : A:\PTO.txt

Output Set: C:\CRF3\06052001\I659983B.raw

287 &lt;223&gt; OTHER INFORMATION: X=Cys-NH2

290 &lt;400&gt; SEQUENCE: 6

292 Xaa His Thr Ser Tyr Xaa Leu Xaa Pro Gly Xaa His Thr Ser Tyr Xaa

293 1 5 10 15

295 Leu Xaa Pro Gly Xaa

296 20

298 &lt;210&gt; SEQ ID NO: 7

299 &lt;211&gt; LENGTH: 21

300 &lt;212&gt; TYPE: PRT

301 &lt;213&gt; ORGANISM: artificial

303 &lt;220&gt; FEATURE:

304 &lt;223&gt; OTHER INFORMATION: A peptide suitable for eliciting an immune response against forms

305 GnRH/ LHRH

307 &lt;220&gt; FEATURE:

308 &lt;221&gt; NAME/KEY: PEPTIDE

309 &lt;222&gt; LOCATION: (1)..(1)

310 &lt;223&gt; OTHER INFORMATION: X=pyroglutamic acid

313 &lt;220&gt; FEATURE:

314 &lt;221&gt; NAME/KEY: PEPTIDE

315 &lt;222&gt; LOCATION: (6)..(6)

316 &lt;223&gt; OTHER INFORMATION: X=D-Lys

319 &lt;220&gt; FEATURE:

320 &lt;221&gt; NAME/KEY: PEPTIDE

321 &lt;222&gt; LOCATION: (10)..(10)

322 &lt;223&gt; OTHER INFORMATION: X=amino acid substitution

325 &lt;220&gt; FEATURE:

326 &lt;221&gt; NAME/KEY: PEPTIDE

327 &lt;222&gt; LOCATION: (11)..(11)

328 &lt;223&gt; OTHER INFORMATION: X=Gly or Gly preceded by a spacer

331 &lt;220&gt; FEATURE:

332 &lt;221&gt; NAME/KEY: PEPTIDE

333 &lt;222&gt; LOCATION: (16)..(16)

334 &lt;223&gt; OTHER INFORMATION: X=amino acid substitution

337 &lt;220&gt; FEATURE:

338 &lt;221&gt; NAME/KEY: PEPTIDE

339 &lt;222&gt; LOCATION: (20)..(20)

340 &lt;223&gt; OTHER INFORMATION: X=amino acid substitution

343 &lt;220&gt; FEATURE:

344 &lt;221&gt; NAME/KEY: PEPTIDE

345 &lt;222&gt; LOCATION: (21)..(21)

346 &lt;223&gt; OTHER INFORMATION: X=Cys-NH2

349 &lt;400&gt; SEQUENCE: 7

351 Xaa His Thr Ser Tyr Xaa Leu Arg Pro Xaa Xaa His Thr Ser Tyr Xaa

352 1 5 10 15

354 Leu Arg Pro Xaa Xaa

355 20

357 &lt;210&gt; SEQ ID NO: 8

358 &lt;211&gt; LENGTH: 42

359 &lt;212&gt; TYPE: PRT

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

file:///C:/CRF3/06052001/I659983B.htm

6/5/01

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/659,983B

DATE: 06/05/2001

TIME: 14:22:07

Input Set : A:\PTO.txt

Output Set: C:\CRF3\06052001\I659983B.raw

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:81 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3  
L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:130 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:136 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4  
L:174 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:183 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5  
L:233 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:242 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:6  
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:295 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:301 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:7  
L:351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:354 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:360 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:8  
L:422 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:434 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:9  
L:472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:475 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9  
L:481 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:10  
L:519 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:522 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:528 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:11  
L:578 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:581 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:587 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:12  
L:637 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:640 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12  
L:646 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:13  
L:690 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:693 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13